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Office Memorandum • UNITED STATES GOVERNMENT

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то :	The Files	15 APR 15	064540 DATE:	24 July 1958	
FROM:		1107 22 2013	<u> </u>		
su bject :	Trip Report -		27		
	l. Om 21	July 1958. the undersimed	visited the to monitor		
	on the modified Project		in conjunct:	ion with	
	(including a li been received b receiver design feels that no t	h a fixed price contract. st of the desired receiver y and, for all practic can be considered as final echnical problems remain to	The purchase modification al purposes, ized. be solved,	order ns) has the	
	questioned the advisability of using a dual- phosphor CRT. plans to use a single CRT, with two layers of phosphor, for both the visual and the photographic FTI (frequency - time indicator) displays. One layer will be a high-persistency (approximately 30 sec.) phosphor which will, when a vertical raster is used with the frequency sweep, create a visible FTI display with a history of approximately 30 seconds. For photographic purposes, the vertical raster will be eliminated, the light from the high-persistency phosphor will be filtered out, and the frequency- intensity pattern indicated by the high-resolution phosphor layer will be recorded on moving film to create an FTI display with the moving film serving as the time base. system will not work satisfactorily. He cited discussions with personnel of the as the basis for his beliefs and suggested the following alternate plans:				

Plan 1. Use one CRT with a single phosphor of very high persistency (2-3 min.). Vertical raster will be used at all times to create a visual FTI display. For photographic recording, a single frame picture will be taken of the FTI display each time the vertical raster indexes from the bottom to the top of the CRT.

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Plan 2. Use two separate CRT's, one with high persistency phospher for visual FTI display and one with high resolution phospher for photographic recording on continuously moving film.

further requested that consider the possible advantages of using the 5FP25 CRT which is using in their receiver. agreed to investigate proposals.	25X1 25X1 25X1 25X1
the unexpected opposition to their technical approach which had, in fact, already been approved by the sponsoring division. The	25X1
undersigned pointed out to them that the suggestions of should in no way be considered as an indication that the sponsoring division had withdrawn its approval of the planned technical approach, and they should consider a change in technical approach only if specifically directed to do so by the technical representative of the sponsoring division. 5. The question of a variable vector scan control was also brought up by who feels that this feature should be included in the finished receiver. agreed that such a feature would, indeed, be desirable, but emphasized that the inclusion of the variable vector scan control would entail an R+D effort neither provided for in the fixed price purchase order, nor considered in the anticipated delivery schedule. At the present time, it does not appear that the benefits of variable vector scan	25X1 25X1 25X1
warrant the added R+D effort or the contract time extension. 6. Following these discussions, briefed the	25X1
government representatives on some of the work being done at on masers and parametric amplifiers. Among their more impressive accomplishments is an S-band parametric amplifier (still under	25X1
development) with which they have achieved noise figures in the order of 2 db under non-eryogenic conditions. further indicated that the company is eager to take on additional work along these lines.	25X1
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